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By: *Lin D. Lerner*Date: 5/27/03IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Johann Winderl et al.
Appl. No. : 10/079,114
Filed : February 20, 2002
Title : Electronic Component with a Semiconductor
Chip and Method of Producing an Electronic
Component
Examiner : Gene M. Munson
Group Art Unit : 2811

R E S P O N S E:

Mail Stop Fee Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

S i r :

The following remarks respond to the Office action dated
January 31, 2003.

Reconsideration of the application is requested. Claims 1-17
remain in the application.

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In the third paragraph on page two of the above-identified Office action, the Examiner has rejected claims 8 and 11-13 as under 35 U.S.C. § 112, first paragraph. In addition, the Examiner objected to the drawings for not showing all of the features of those claims under 37 CFR 1.83.

More specifically, the Examiner has stated that, in claim 8, the dendritic structure was not described and shown. For support in the specification, the Examiner is directed to page 7, lines 4-6, page 23, lines 8-10, and reference number 31 in Fig. 1. While the dendritic structure is not visible in the scale of the drawings, it can be seen as an overall layer.

The bonding channel is described in the specification at page 7, line 25, through page 8, line 15; and page 21, lines 10-26.

The conductor tracks are described in the specification on page 9, lines 7-15; and page 21, lines 16-22.

Accordingly, the specification and the claims meet the requirements of 35 U.S.C. § 112, first and second paragraphs. Should the Examiner find any further objectionable items, counsel would appreciate a telephone call during which the matter may be resolved.

In the second paragraph on page 3 of the Office action, the Examiner rejected claims 1 and 9 as being fully anticipated by Dando under 35 U.S.C. § 102. As will be explained below, the claims were patentable over the cited art in their original form and the claims have, therefore, not been amended to overcome the references.

Before discussing the prior art in detail, a brief review of the invention as claimed is provided. Claim 1 calls for, *inter alia*, an electronic component having the following features:

a semiconductor chip including a semiconductor material, said semiconductor chip having an active upper side, a passive rear side, and a sawn edge;

said sawn edge being formed of said semiconductor material and surrounding said semiconductor chip, said sawn edge having profile-sawn contours; and

a plastics composition forming a plastic edge, said plastic edge surrounding said sawn edge and being in a form-locking engagement with said profile-sawn contours. (Emphasis added by Applicants.)

Dando merely shows simple vertical cuts of the semiconductor chips.

Dando does not show edges with profile-sawn contours. Only by including profile-sawn contours can the form-locking engagement of the plastic edges with the sawn edges be achieved. See specification page 4, lines 16-21.

Because Dando does not show this feature, claim 1 is not anticipated by Dando.

In the third paragraph on page 3, the Examiner rejected claims 1, 9, and 10 as being unpatentable over Dando under 35 U.S.C. § 103(a). For the reasons stated above, Dando does not teach or suggest all of the features of claim 1. Because claims 2-17 ultimately depend on claim 1, they are patentable over Dando for the same reasons.

In the fourth paragraph on page 3 of the Office action, the Examiner rejected claims 6 and 7 as being unpatentable over Dando in view of Saitoh under 35 U.S.C. § 103(a). As discussed above, Dando does not teach or suggest all of the features of claim 1. Likewise, Saitoh does not teach or suggest a sawn edge with a profile-sawn contour. Accordingly, claims 6 and 7, which depend from claim 1, are not obvious over Dando in view of Saitoh.

In the penultimate paragraph on page 3 of the Office action, the Examiner rejected claims 1, 4, and 9 as being fully anticipated by Brooks et al. (U.S. 6,043,564) under 35 U.S.C. § 103(a). Like Dando, Brooks et al. only teach straight-downward edges. Brooks does not teach a profile-sawn edge. Accordingly, Brooks et al. do not teach all of the features of claim 1. Therefore, claim 1 is not anticipated by Brooks et

al. Furthermore, because claims 4 and 9 ultimately depend from claim 1, they are not anticipated as well.

In the final paragraph on page 3 of the Office action, the Examiner rejected claims 1 and 6 as being fully anticipated by the abstract of Japan 2144946. Japan 2144946 likewise does not disclose profile-sawn edges. Accordingly, Japan 2144946 does not teach all of the features of claim 1. Therefore, claim 1 is not anticipated by Japan 2144946. Furthermore, because claim 6 ultimately depends from claim 1, claim 6 is also not anticipated.

Accordingly, none of the references, whether taken alone or in any combination, either show or suggest the features of claim 1. Therefore, claim 1 is patentable over the art. Moreover, because all of the dependent claims are ultimately dependent on claim 1, they are believed to be patentable as well.

In the final paragraph on page 4 of the Office action, the Examiner objected to claims 2-3, 5, 14-15, and 17, as depending on a rejected base claim but indicated that they would be allowable if rewritten as independent claims. However, for the reasons stated above, the base claim, claim 1, are in fact patentable. Accordingly, the claims do not need to be rewritten.

In view of the foregoing, reconsideration and allowance of claims 1-17 are solicited. In the event the Examiner should still find any of the claims to be unpatentable, please telephone counsel so that patentable language can be substituted.

Petition for extension is herewith made. The extension fee for response within a period of one month pursuant to Section 1.136(a) in the amount of \$110 in accordance with Section 1.17 is enclosed herewith.

Please charge any other fees that might be due with respect to Sections 1.16 and 1.17 to the Deposit Account of Lerner and Greenberg, P.A., No. 12-1099.

Respectfully submitted,

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For Applicants

LDP:cgm

May 24, 2003

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